

TAMARACK™ Anterior Thoracolumbar Plating System**510(k) SUMMARY****February 2005**

MAR 4 2005

I. **Company:** Alphatec Manufacturing Inc.
6110 Corte Del Cedro
Carlsbad, CA 92009, USA
(760) 431-9286

II. **Contact Person:** Ellen Yarnall, Director of Regulatory Affairs

III. **Trade/Proprietary Name:** TAMARACK™ Anterior Thoracolumbar Plating System

IV. **Product Description:**

The TAMARACK™ Anterior Thoracolumbar Plating System facilitates the surgical correction of spinal deformities by providing temporary internal fixation and stabilization during bone graft healing and/or fusion mass development. Device implants include a range of sizes of plates, screws, bolts and a locking nut. All system components are made from titanium alloy (Ti 6Al-4V) meeting ASTM F-136.

V. **Classification**

KWQ (21 CFR 888.3060) Spinal Intervertebral Body Fixation Orthosis

VI. **Indications for Use**

The TAMARACK™ Anterior Thoracolumbar Plating System is intended for fixation to the anterolateral vertebral bodies (T10 to L5). This system is intended for implantation on one side only for the treatment of thoracic and lumbar spine instability as a result of fracture, including dislocation and subluxation, tumor, degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies), scoliosis, kyphosis, lordosis, spinal stenosis, or failed previous fusion surgery.

VII. **Substantial Equivalence:**

This application demonstrates that the TAMARACK™ Anterior Thoracolumbar Plating System is substantially equivalent to the Z-Plate offered by Medtronic Sofamor Danek.

(K991460)

VIII. **Performance Data:**

Static and dynamic testing of the TAMARACK™ Anterior Thoracolumbar Plating System was performed and submitted in this application.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

MAR 14 2005

Ellen A Yarnall
Director of Regulatory Affairs
Alphatec Manufacturing, Inc.
6110 Corte Del Cedro
Carlsbad, California 92009

Re: K050390

Trade/Device Name: TAMARACK™ Anterior Thoracolumbar Plating System

Regulation Number: 21 CFR 888.3060

Regulation Name: Spinal Intervertebral Body Fixation Orthosis

Regulatory Class: II

Product Code: KWQ

Dated: February 14, 2005

Received: February 16, 2005

Dear Ms. Yarnell:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

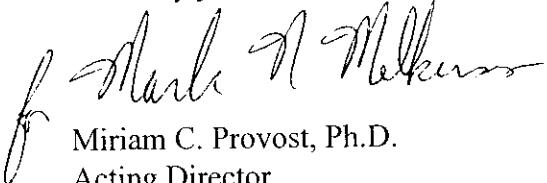
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Ms. Ellen A Yarnall

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-4369. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Miriam C. Provost, Ph.D.
Acting Director
Division of General, Restorative
and Neurological Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

INDICATIONS FOR USE

510(k) Number (if known): K050390

Device Name: TAMARACK™ Anterior Thoracolumbar Plating System

Indications for Use:

The TAMARACK™ Anterior Thoracolumbar Plating System is intended for fixation to the anterolateral vertebral bodies (T10 to L5). This system is intended for implantation on one side only for the treatment of thoracic and lumbar spine instability as a result of fracture, including dislocation and subluxation, tumor, degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies), scoliosis, kyphosis, lordosis, spinal stenosis, or failed previous fusion surgery.

Warning: This device is not intended for fixation to the posterior elements (pedicle) of the cervical, thoracic or lumbar spine.

Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The Counter Use _____
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE- CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

for Mark A Miller
(Division Sign-Off)
**Division of General, Restorative,
and Neurological Devices**

510(k) Number

K050390

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